

AMENDMENT OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18 (canceled)

19. (Currently amended) A method for treating a human or veterinary patient who suffers from ~~congestive heart failure or another~~ a condition wherein the ~~patients~~ patient's cardiac output is subnormal, said method comprising the steps of:

- B1
- a. providing a heat exchange catheter system comprising i) a heat exchange catheter body, and ii) at least one heat exchanger for exchanging heat with blood flowing through a blood vessel into which the heat exchange catheter body is inserted, iii) a temperature sensor for sensing the temperature of at least a portion of the patient's body and iv) a controller adapted to receive an indication of the sensed patient temperature from the temperature sensor and to control the heat exchanger in response to said sensed patient temperature such that the heat exchanger will cool at least a portion of the patient's body to a target temperature that is at least 1 °C below normothermia;
 - b. providing an intra-aortic balloon counterpulsation catheter comprising i) a counterpulsation catheter body and ii) a counterpulsation balloon useable for effecting intra-aortic balloon counterpulsation;
 - c. inserting the heat exchange catheter into the patient's vasculature such that blood flows in heat exchange proximity to the heat exchanger;
 - d. inserting the intra-aortic balloon counterpulsation catheter into the patient's vasculature such that the counterpulsation balloon is positioned within the patient's aorta;
 - e. using the intra-aortic balloon counterpulsation catheter to effect intra-aortic balloon counterpulsation; ~~and;~~
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flow
chart

~~f. using while the heat exchange catheter system to cool~~ cools the temperature of at least a portion of the patient's body to a temperature that is at least 1 °C below normothermia.

20. (currently amended) A method according to Claim 19 further comprising the step of:
f.g. administering an antishivering treatment tot he patient.

21. (original) A method according to Claim 20 wherein the wherein the anti-shivering treatment is selected from the group of anti-shivering treatments consisting of: i) administering a therapeutically effective amount of an anti-shivering agent to the donor; ii) applying warmth to the skin of the donor and iii) administering a therapeutically effective amount of an anti-shivering agent to the donor and applying warmth to the skin of the donor.

22. (original) A method according to Claim 20 wherein the anti-shivering treatment comprises administering to the donor a therapeutically effective amount of at least one anti-shivering agent selected from the group consisting of: i) dopamine receptor antagonists; ii) dopamine receptor agonists; iii) κ -opioid receptor agonists; iv) opioid agonist-antagonist analgesics, v) serotonin 5HT1a receptor agonists and vi) alpha-2 adrenergic receptor agonists.

23. (original) A method according to Claim 19, wherein the patient's body temperature is cooled to and maintained within the range of 32-34°C while intra-aortic counterpulsation is performed.

24. (original) A method according to Claim 19 wherein the heat exchanger is positioned in a vein.

25. (original) A method according to Claim 24 wherein the heat exchanger is positioned in the vena cava.

32

Docket No. RADNT-031A

26. (previously added) A method according to Claim 19 wherein the heat exchange catheter provided in Step A and the intra-aortic balloon counterpulsation catheter provided in Step B comprise a single catheter body having both a heat exchanger and a counterpulsation balloon thereon.

27. (previously added) A method according to Claim 19 wherein the heat exchange catheter provided in Step A and the intra-aortic balloon counterpulsation catheter provided in Step B comprise separate catheters.